

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/712,022	11/14/2003	Sang-Chang Cha	Q77977	8388	
23373 SUGHRUE M	7590 05/22/2007 ION, PLLC	EXAMINER			
2100 PENNSYLVANIA AVENUE, N.W.			MAI, TAN V		
SUITE 800 WASHINGTO	N, DC 20037	ART UNIT	PAPER NUMBER		
	,		2193		
			MAIL DATE	DELIVERY MODE	
		•	05/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			on No.	Applicant(s)					
Office Action Summary		10/712,02	2	CHA ET AL.					
		Examiner		Art Unit					
		Tan V. Ma	i	2193					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for Reply A SHORTENED STATISTORY DEDICE COR DEDICE SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status	·								
1)⊠	Responsive to communication(s) filed on 12 M	1arch 2007.							
2a)⊠	This action is FINAL . 2b) This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠	Claim(s) 1-26 is/are pending in the application		•						
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>7-12 and 21-23</u> is/are allowed.									
6)⊠	Claim(s) <u>1-6, 13-20 and 24-26</u> is/are rejected.		. C		•				
7)	Claim(s) is/are objected to.								
8)	Claim(s) are subject to restriction and/o	or election re	equirement.						
Applicati	ion Papers								
9)[The specification is objected to by the Examine	er.	•						
10)	The drawing(s) filed on is/are: a)☐ acc	epted or b)	\square objected to by the E	xaminer.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
•					•				
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.									
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:									

Application/Control Number: 10/712,022

Art Unit: 2193

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-6, 13-20 and 24-26 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claims 1-6 and 13-18, rejection grounds continue to be those set forth in the previous office action (Paper dated 12/12/06, paragraph 1).

Due to the similarity of claims NEW claims 19-20 and 24-26 to claims 1-6 and 13-18, they are rejected under a similar rationale.

3. Applicants' arguments filed on 3/12/07 have been fully considered but they are not persuasive.

Applicants, in their remarks, argue that: "[a]pplicant submits that claims 1-6 and 13-18 comply with § 101 ".

With respect to the argument, the examiner carefully reviews Applicant's claimed invention. It is noted that applicant hasn't pointed out how/why the claim produces a **useful, concrete, and tangible result**. If the <u>claim</u> as a whole is reasonably interpreted as just solving a mathematical algorithm rather than reciting a <u>practical application</u> of the algorithm which produces a **useful, concrete and tangible result**, then it would be non-statutory. It would appear to be **concrete** and **tangible** in the context of the claim; however, the **useful** result appears lacking. Therefore, the rejection is still proper.

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP §

Application/Control Number: 10/712,022 Page 3

Art Unit: 2193

706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An, can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is:

Official (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner